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(21) International Application Number: PCT/US98/15563 (22) International Filing Date: 28 July 1998 (28.07.98) (30) Priority Data: 60/054,156 29 July 1997 (29.07.97) US (71) Applicant (for all designated States except US): THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND [US/US]; 1430 Tulane Avenue, New Orleans, LA 70112 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): LANDRY, Samuel, J. [US/US]; 7925 Nelson Street, New Orleans, LA 70125 (US). (74) Agent: BIEKER-BRADY, Kristina; Clark & Elbing LLP, 176 Federal Street, Boston, MA 02110-2214 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: PREDICTION, DETECTION, AND DESIGN OF T CELL EPITOPES (57) Abstract The invention features a method which allows detection and creation of immunodominant T cell epitopes in an antigen. This method allows the generation of improved vaccines with which to prevent and/or treat diseases. In addition, detection of T lymphocytes which react to immunodominant T cell epitopes is facilitated by the method of the invention. Manipulation of the epitopes detected using this method allows the generation of tolerogens which can inhibit the immune response to the antigen.		